

State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-122
Revised 1-91Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

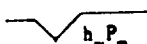
OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Dugan Production Corp.					Lease or Unit Name Salge Federal A Com				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-12-92				
Completion Date 2-12-92					Well No. 90				
Total Depth 1370'					Unit Lr. Sec. TWP Rge. B - 3-25N-13W				
Plug Back TD 1333'					Elevation 6283' GL				
Country					San Juan				
Csg. Size 4 1/2"					Wt. d 16.6# 3.826				
Set At 1355'					Perforations: From: 1250' To: 1265'				
Tbg. Size 2-3/8"					Wt. d 4.7# 1.995				
Set At 1241'					Perforations: From: To:				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single					Packer Set At N/A				
Producing Thru tubing					Baro. Press. P _a 12				
Reservoir Temp. °F					Mean Annual Temp. °F				
L H Gg % CO ₂ % N ₂ % H ₂ S Prover					Formation Fruitland Coal				
Connection Not Connected					Meter Run Taps				

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	shut-in				60	183	60	183	60	3 hrs
1.	2	1/2				19		82		
2.										
3.										
4.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _a	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	4.722		31	1	1.174	1	171.8
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.				.9982	A.P. I Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	.7258
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²
1.		94	8836	29,189
2.				
3.				
4.				
5.				

1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.3027$ (2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.25$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 215$

Absolute Open Flow 215 Mcfd @ 15.025 Angle of Slope θ Slope, n .85

Remarks: Z from gas analysis

Approved By Division	Conducted By: Mark Brown	Calculated By: J. Alexander	Checked By:
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